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(12) **United States Design Patent**
Zhou et al.

(10) **Patent No.:** **US D909,956 S**

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(54) **BUSBAR-LESS SOLAR CELL**

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(71) Applicant: **The Solaria Corporation**, Fremont, CA (US)

(57) **CLAIM**

The ornamental design for a busbar-less solar cell, as shown and described.

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(73) Assignee: **THE SOLARIA CORPORATION**, Fremont, CA (US)

DESCRIPTION

(**) Term: **15 Years**

(21) Appl. No.: **29/674,945**

(22) Filed: **Dec. 27, 2018**

Related U.S. Application Data

(62) Division of application No. 29/622,305, filed on Oct. 16, 2017, now Pat. No. Des. 838,667.

(51) **LOC (13) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/102**

(58) **Field of Classification Search**
USPC D13/101, 102, 107, 133, 184, 199
(Continued)

(56) **References Cited**

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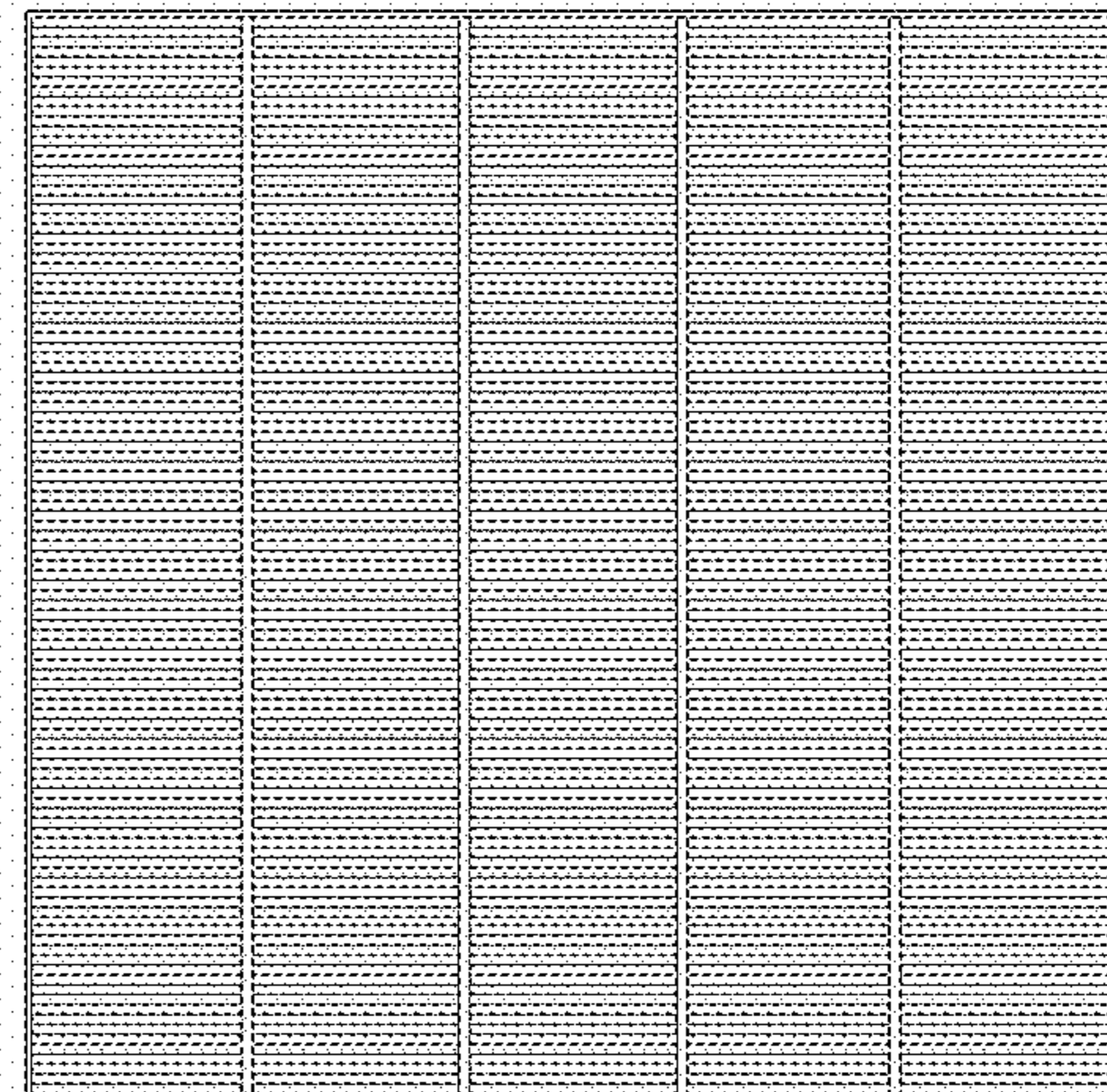
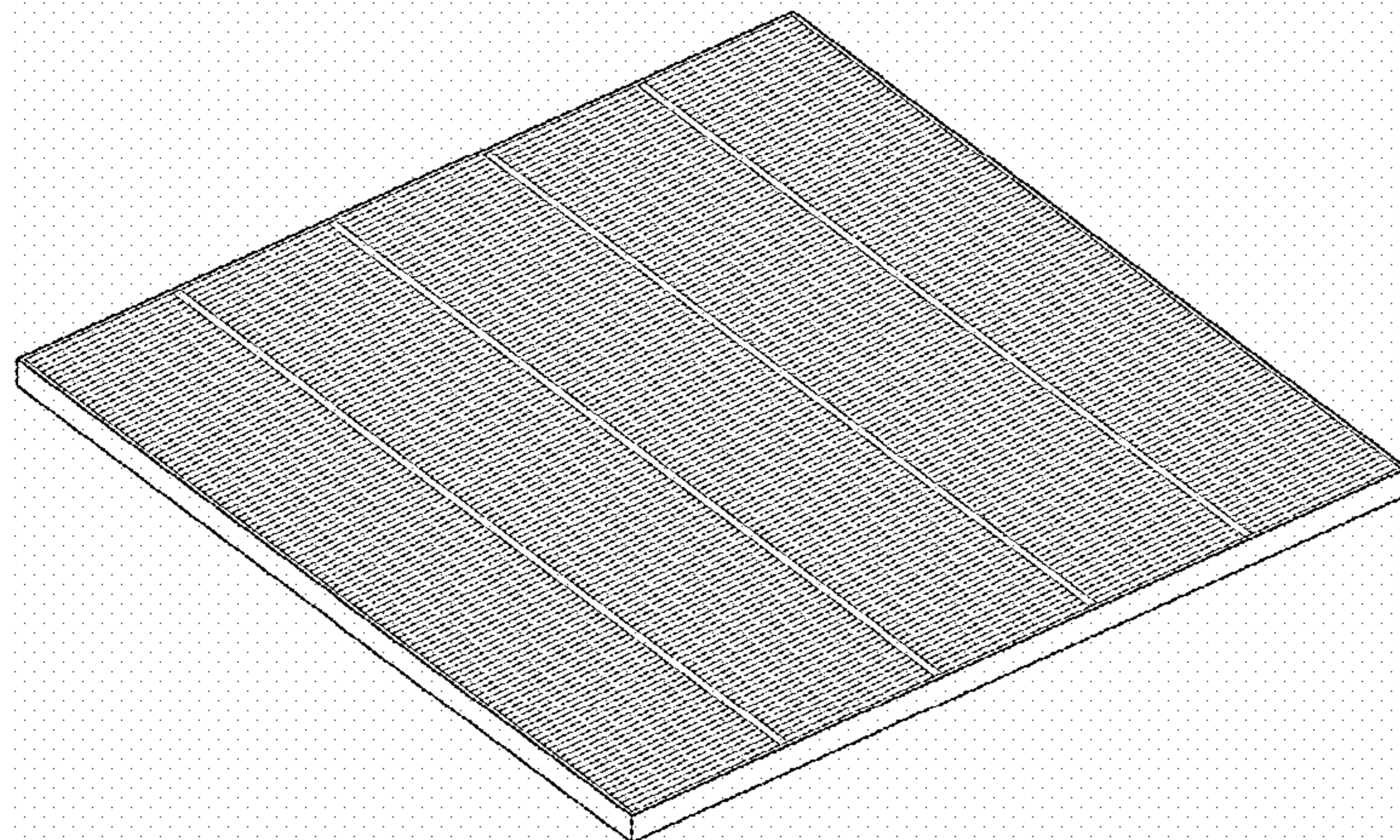
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Search Report issued in ROC (Taiwan) Design Patent Application No. 107302089D01 dated May 17, 2019.

FIG. 1 is a top perspective view of the first embodiment of a busbar-less solar cell showing our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a bottom plan view thereof;
FIG. 4 is a right side elevation view thereof;
FIG. 5 is a left side elevation view thereof;
FIG. 6 is a back side elevation view thereof;
FIG. 7 is a front elevation view thereof;
FIG. 8 is a top perspective view of the second embodiment of a busbar-less solar cell showing our new design;
FIG. 9 is a top plan view thereof;
FIG. 10 is a bottom plan view thereof;
FIG. 11 is a right side elevation view thereof;
FIG. 12 is a left side elevation view thereof;
FIG. 13 is a back side elevation view thereof;
FIG. 14 is a front elevation view thereof;
FIG. 15 is a top perspective view of the third embodiment of a busbar-less solar cell showing our new design;
FIG. 16 is a top plan view thereof;
FIG. 17 is a bottom plan view thereof;
FIG. 18 is a right side elevation view thereof;
FIG. 19 is a left side elevation view thereof;
FIG. 20 is a back side elevation view thereof;
FIG. 21 is a front elevation view thereof;
FIG. 22 is a top perspective view of the fourth embodiment of a busbar-less solar cell showing our new design;
FIG. 23 is a top plan view thereof;
FIG. 24 is a bottom plan view thereof;
FIG. 25 is a right side elevation view thereof;
FIG. 26 is a left side elevation view thereof;
FIG. 27 is a back side elevation view thereof; and,
FIG. 28 is a front elevation view thereof.

1 Claim, 12 Drawing Sheets



(58) **Field of Classification Search**
 CPC H01L 31/02; H01L 31/18; H01L 31/042;
 H01L 31/048; H01L 31/0525; H01L
 31/0203; H01L 31/02008; H01L 31/0504;
 H01L 31/02013; H01L 27/142; H01L
 27/1421; Y02E 10/40; Y02E 10/47; Y02E
 10/50; Y02E 10/52; Y02E 10/54; Y02E
 10/542; Y02E 10/544; H02S 30/10; H02S
 40/34; H02S 40/44; H02J 7/0042
 See application file for complete search history.

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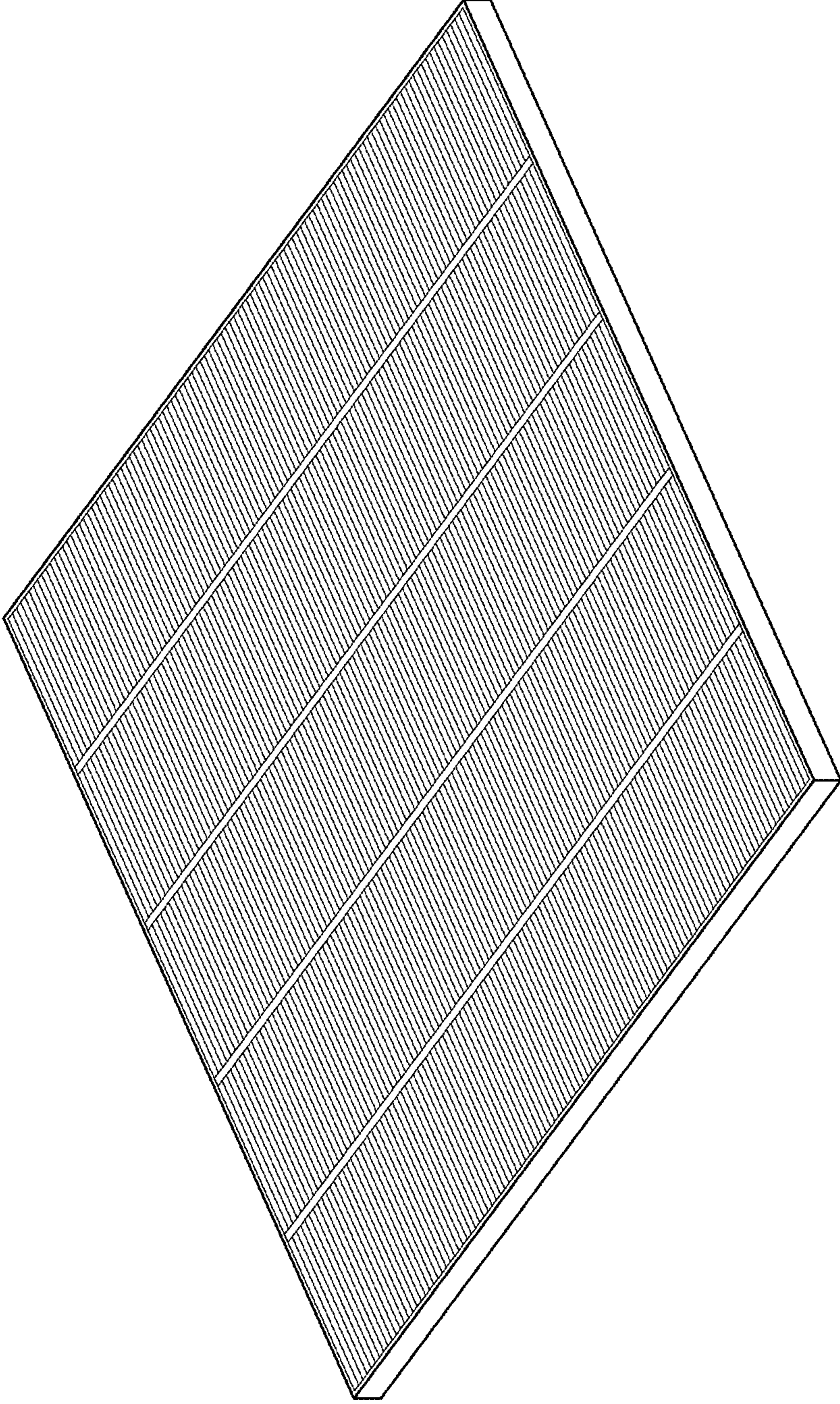


FIG. 1

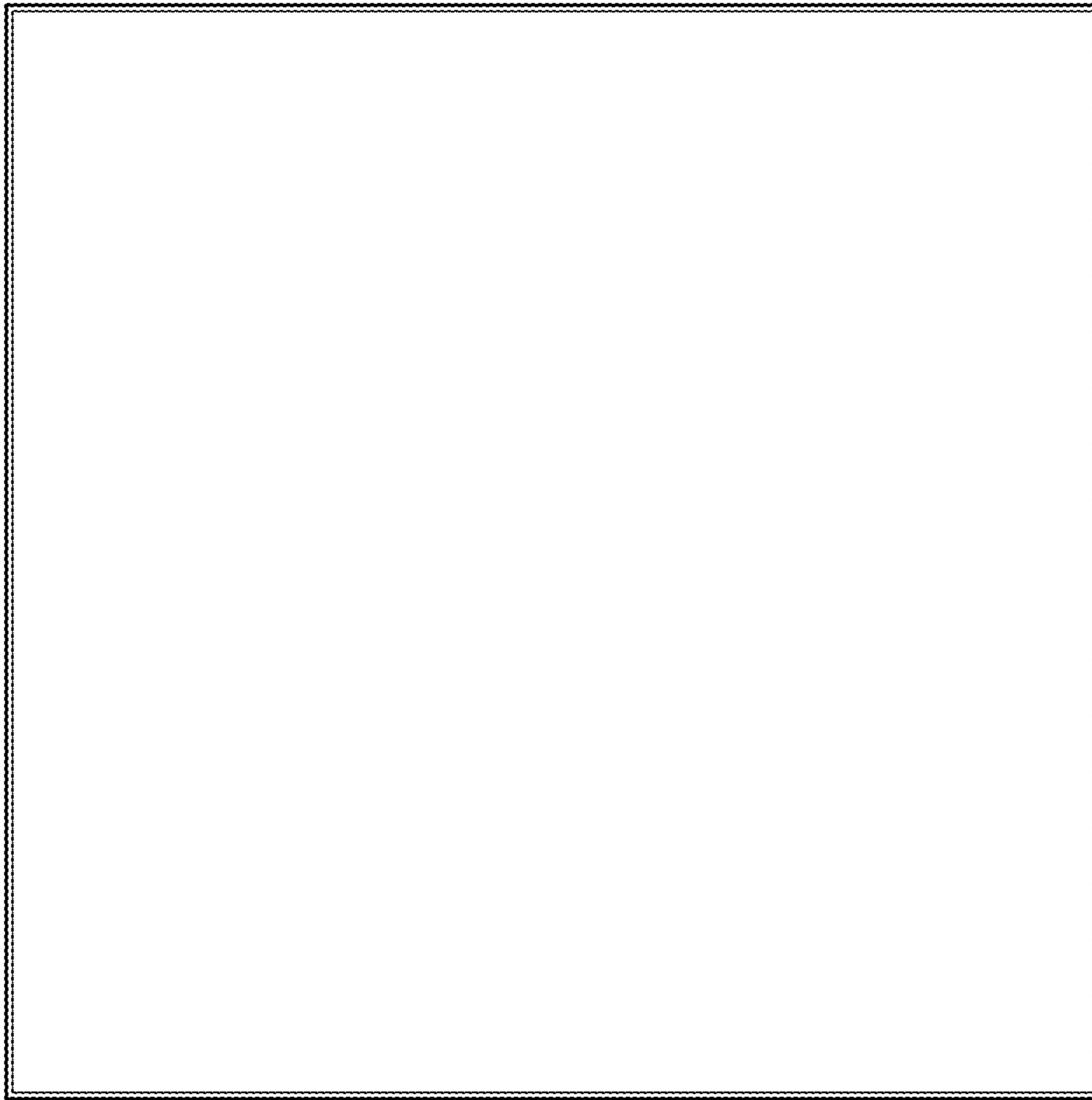


FIG. 3

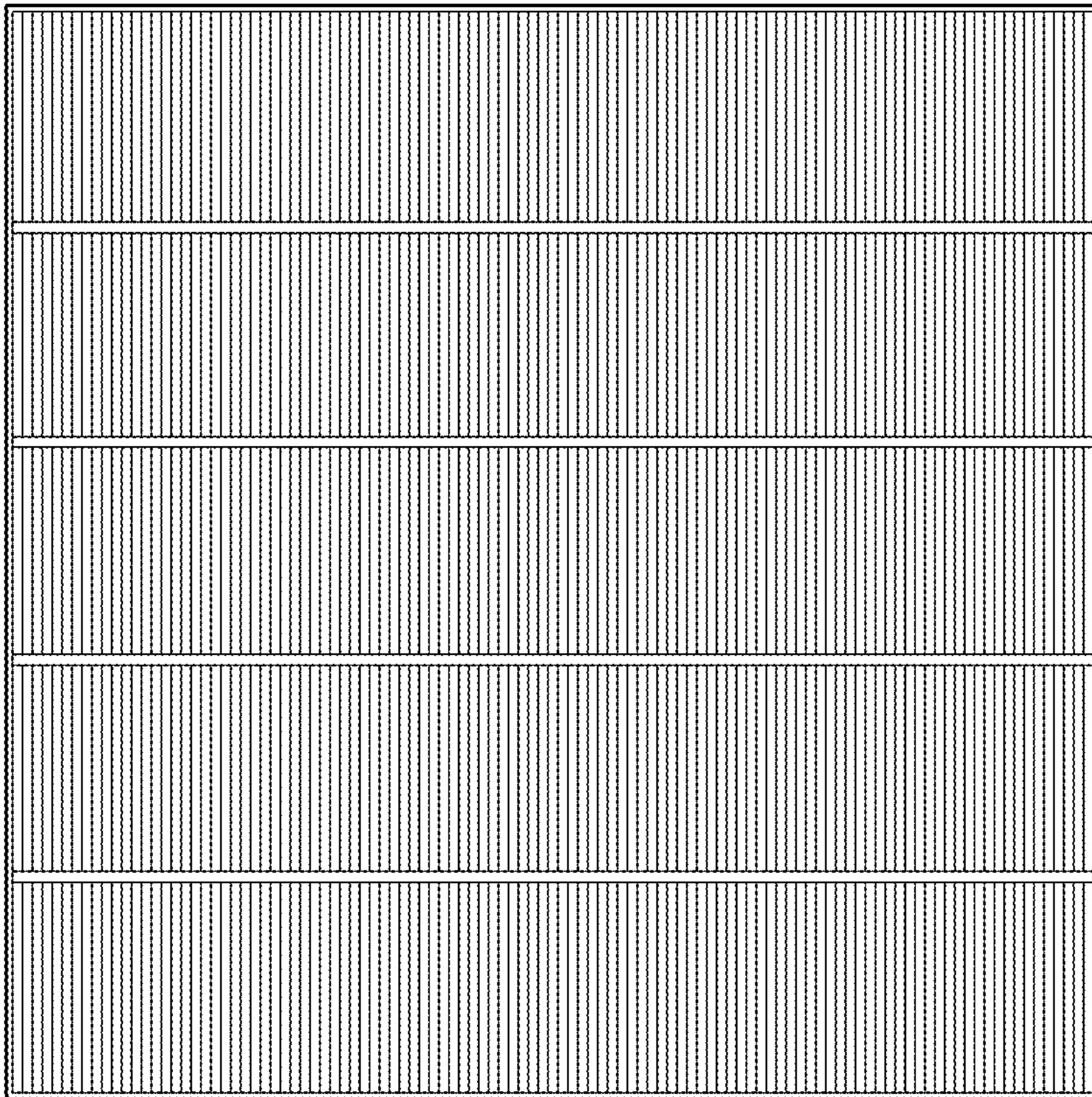


FIG. 2



FIG. 4



FIG. 5



FIG. 6

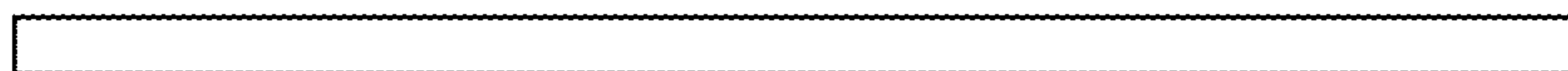


FIG. 7

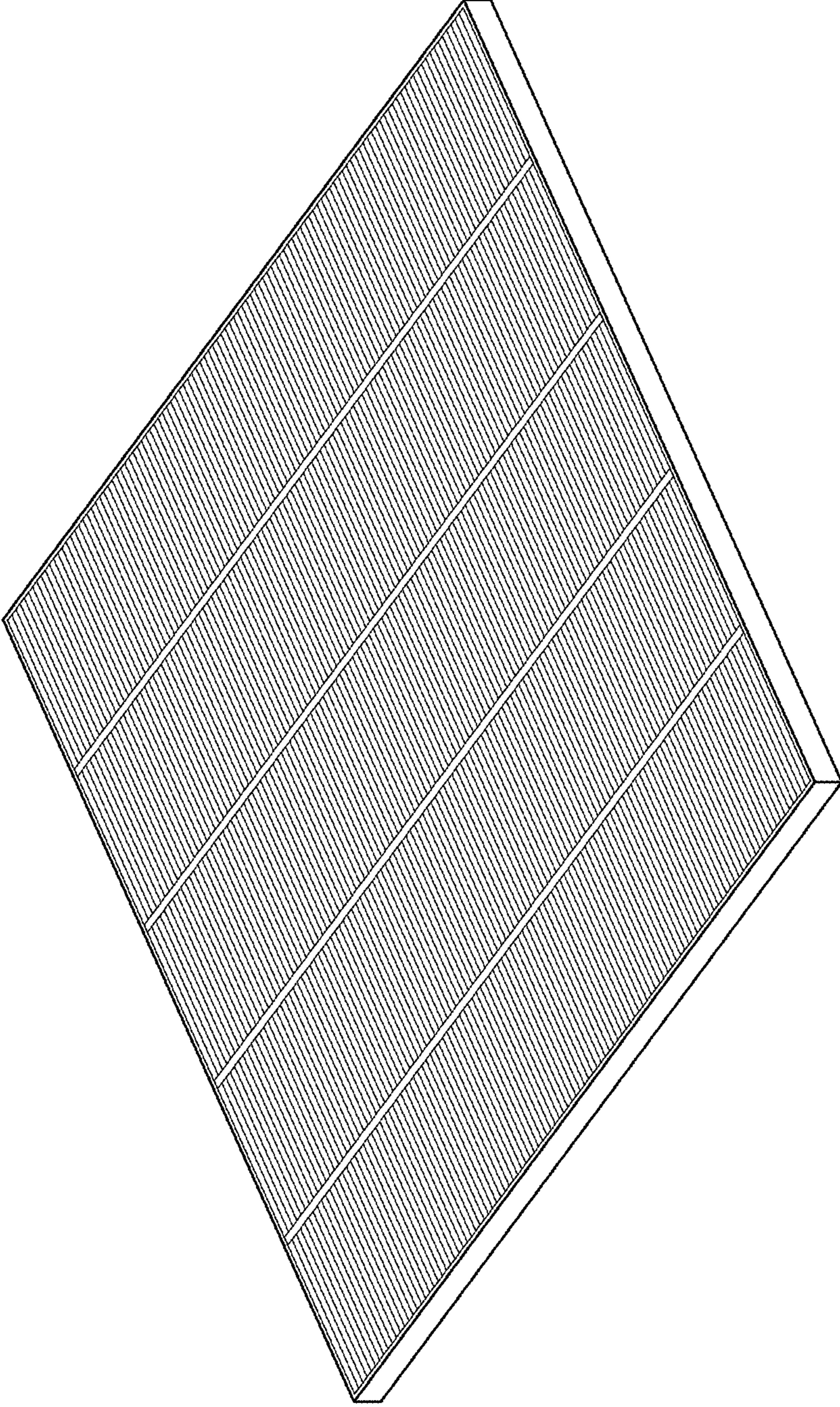


FIG. 8

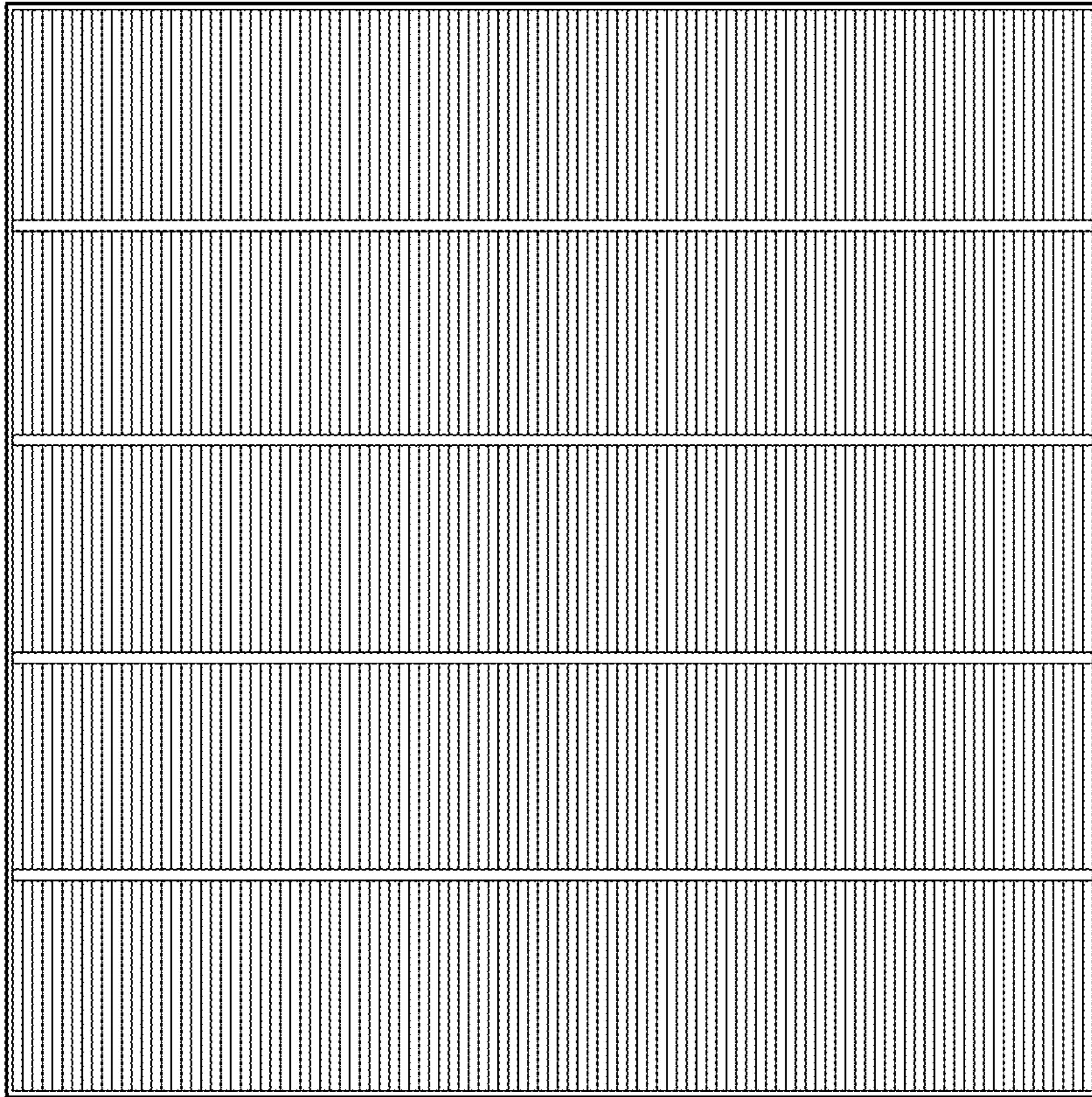


FIG. 10

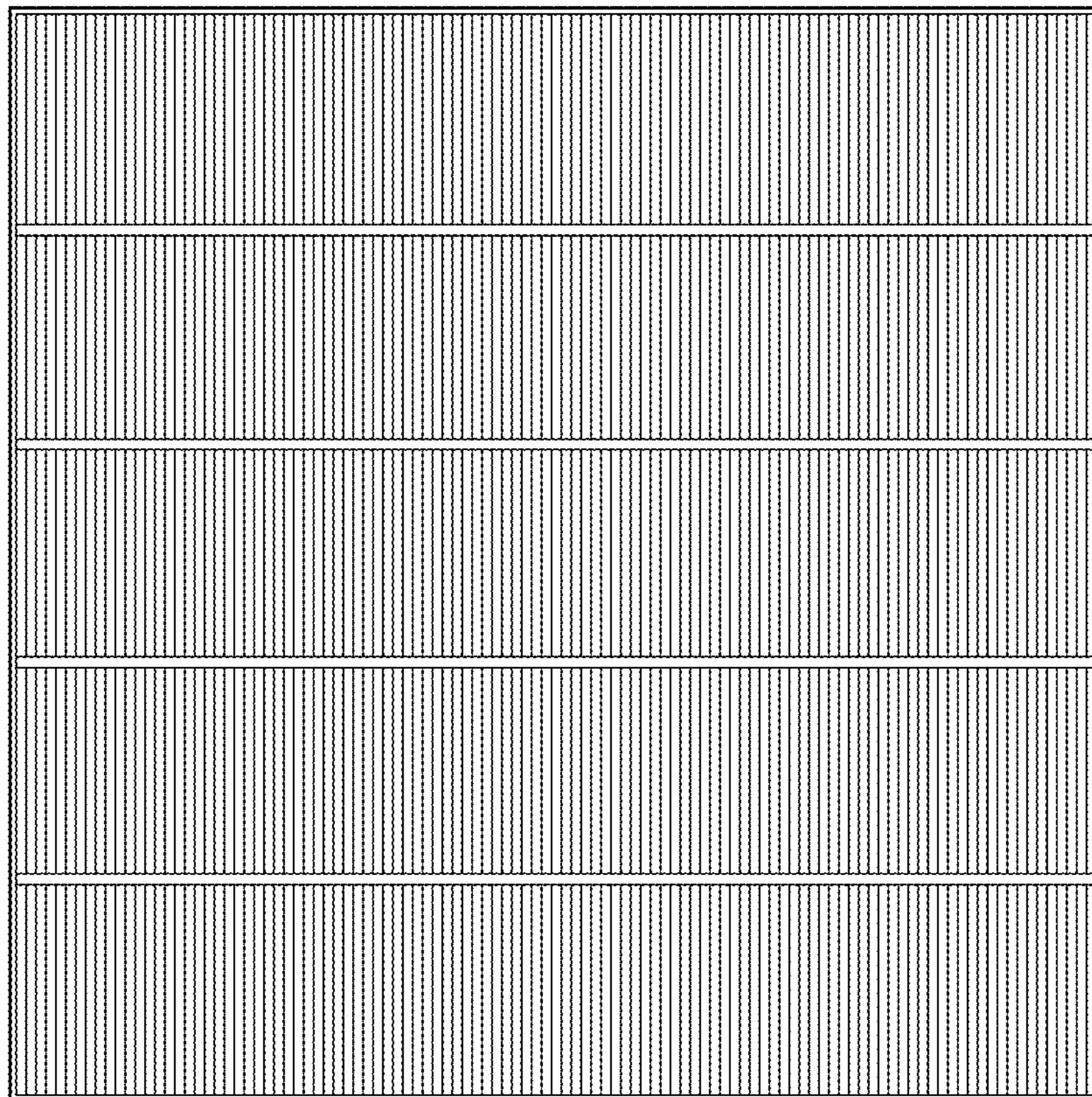


FIG. 9



FIG. 11



FIG. 12

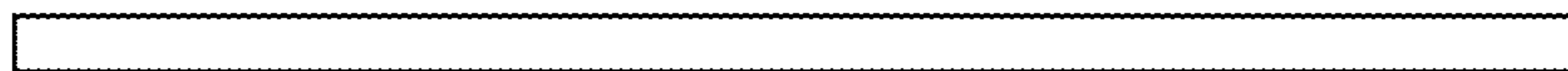


FIG. 13

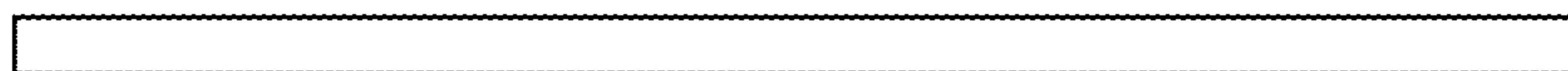


FIG. 14

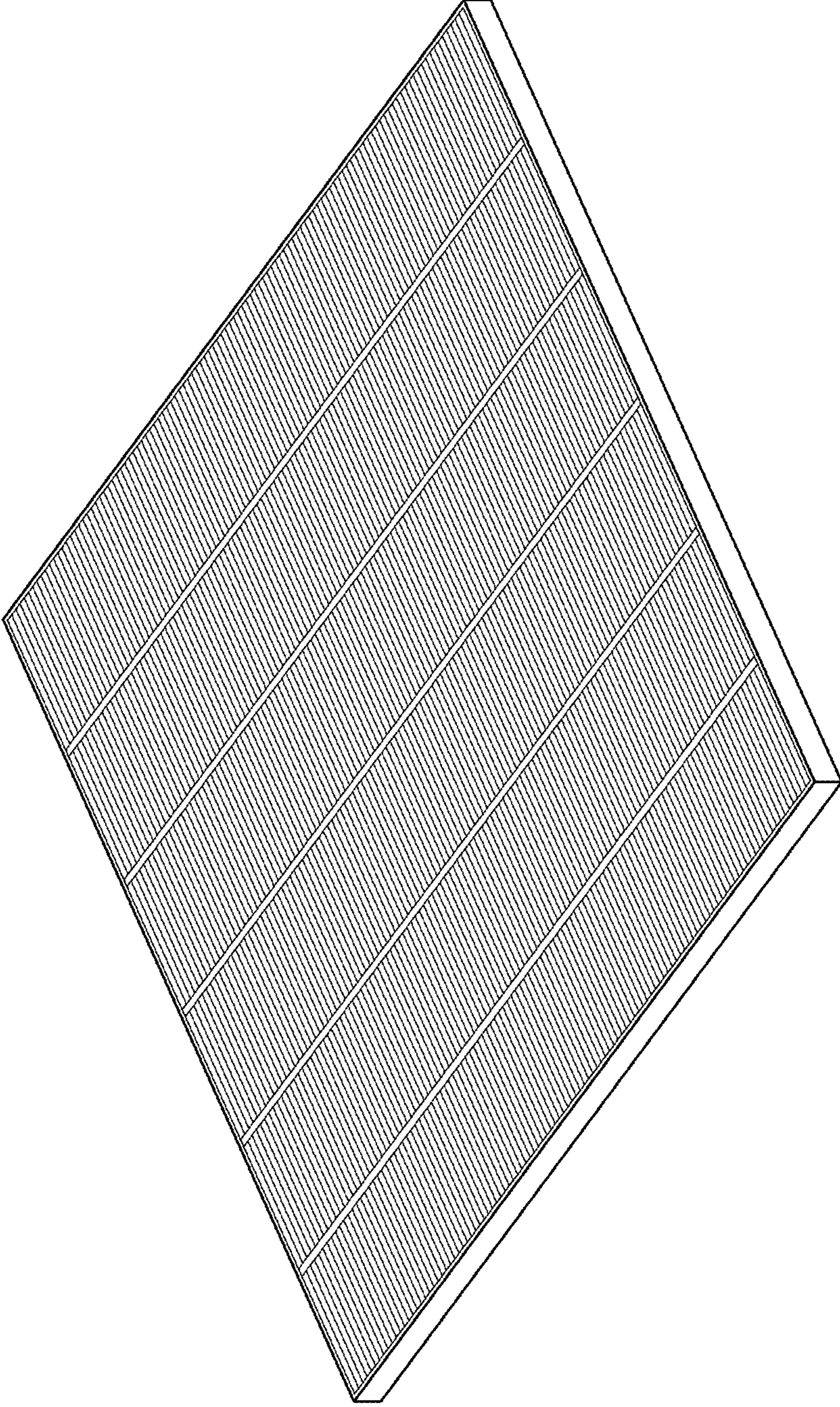


FIG. 15

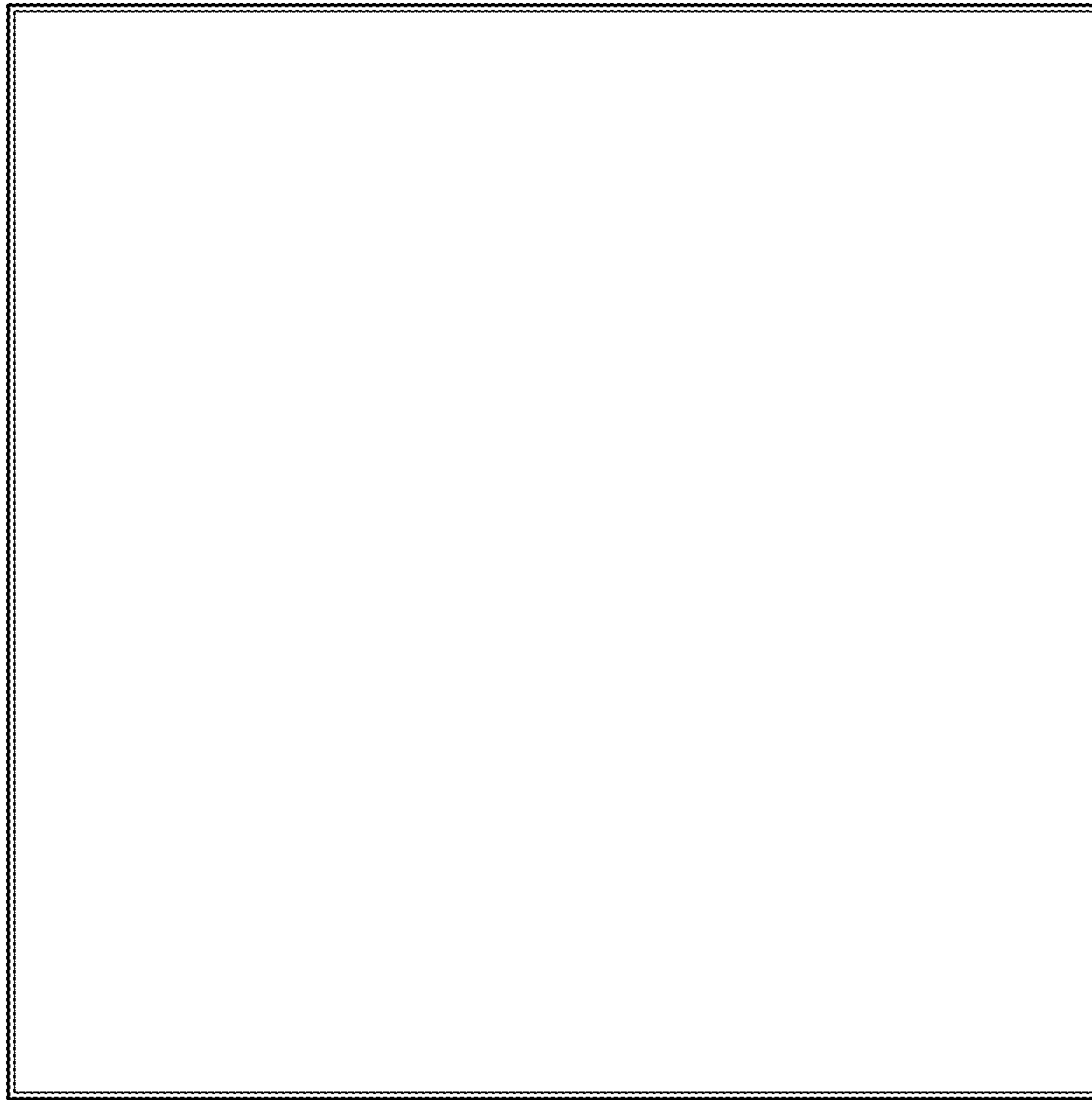


FIG. 17

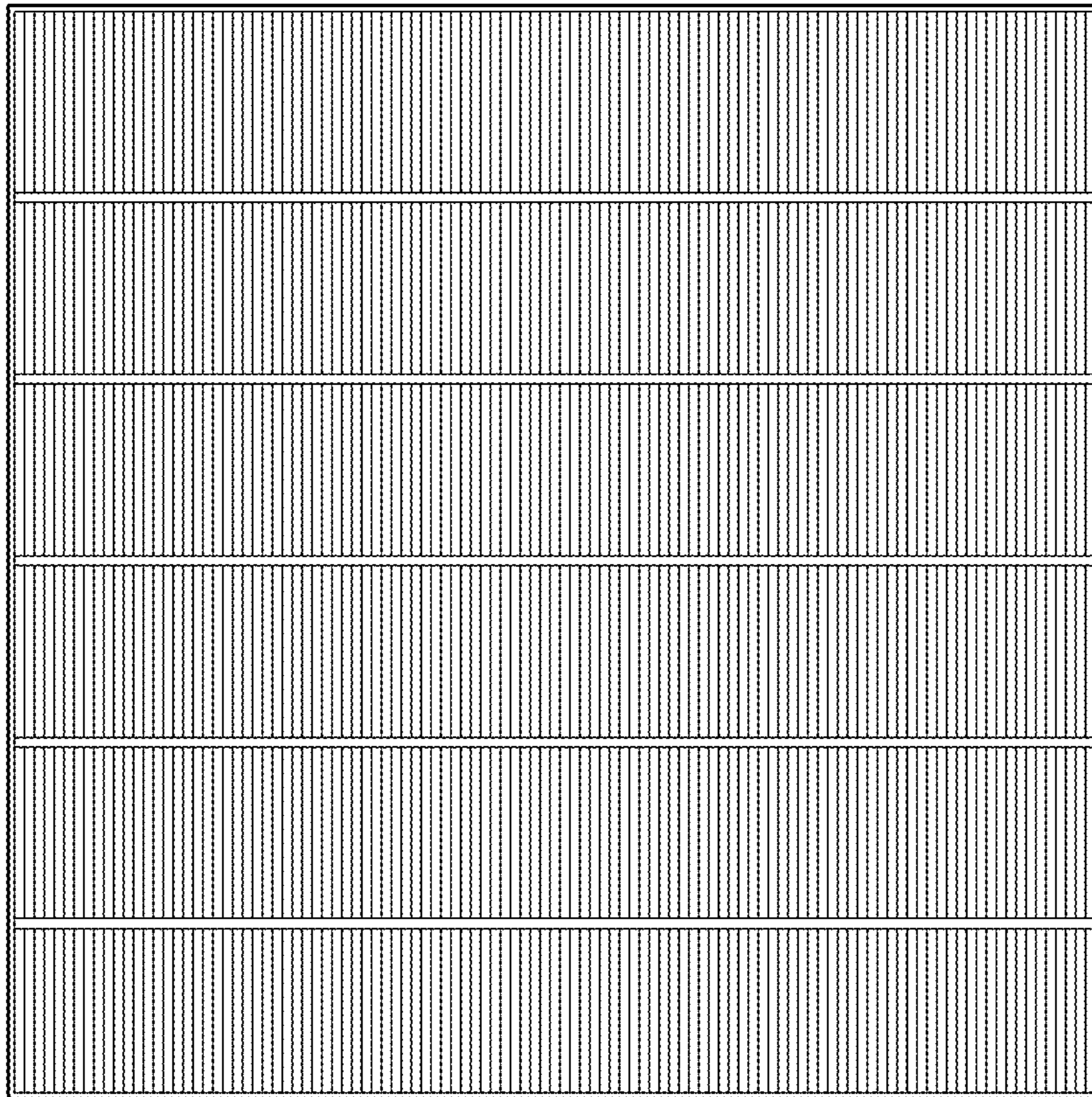


FIG. 16



FIG. 18



FIG. 19

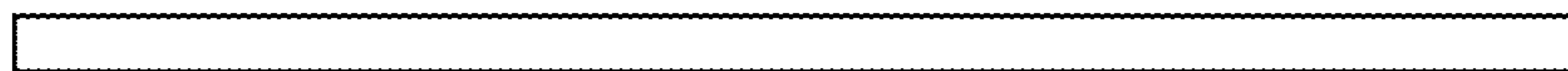


FIG. 20

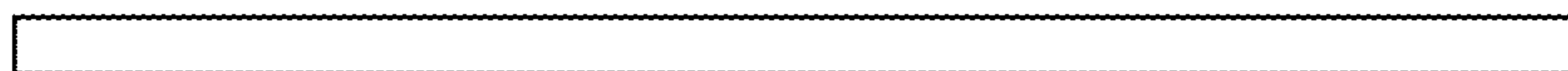


FIG. 21

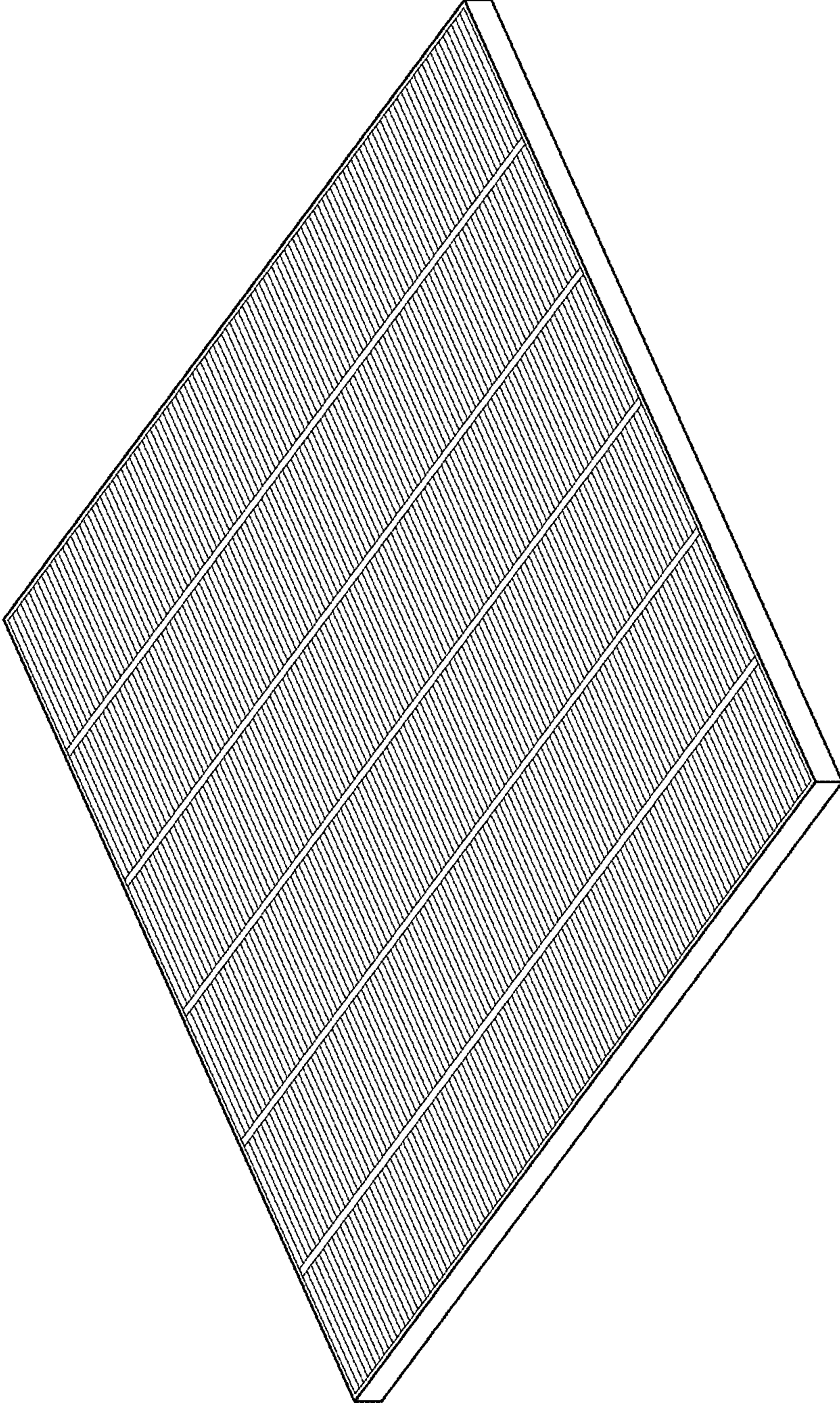


FIG. 22

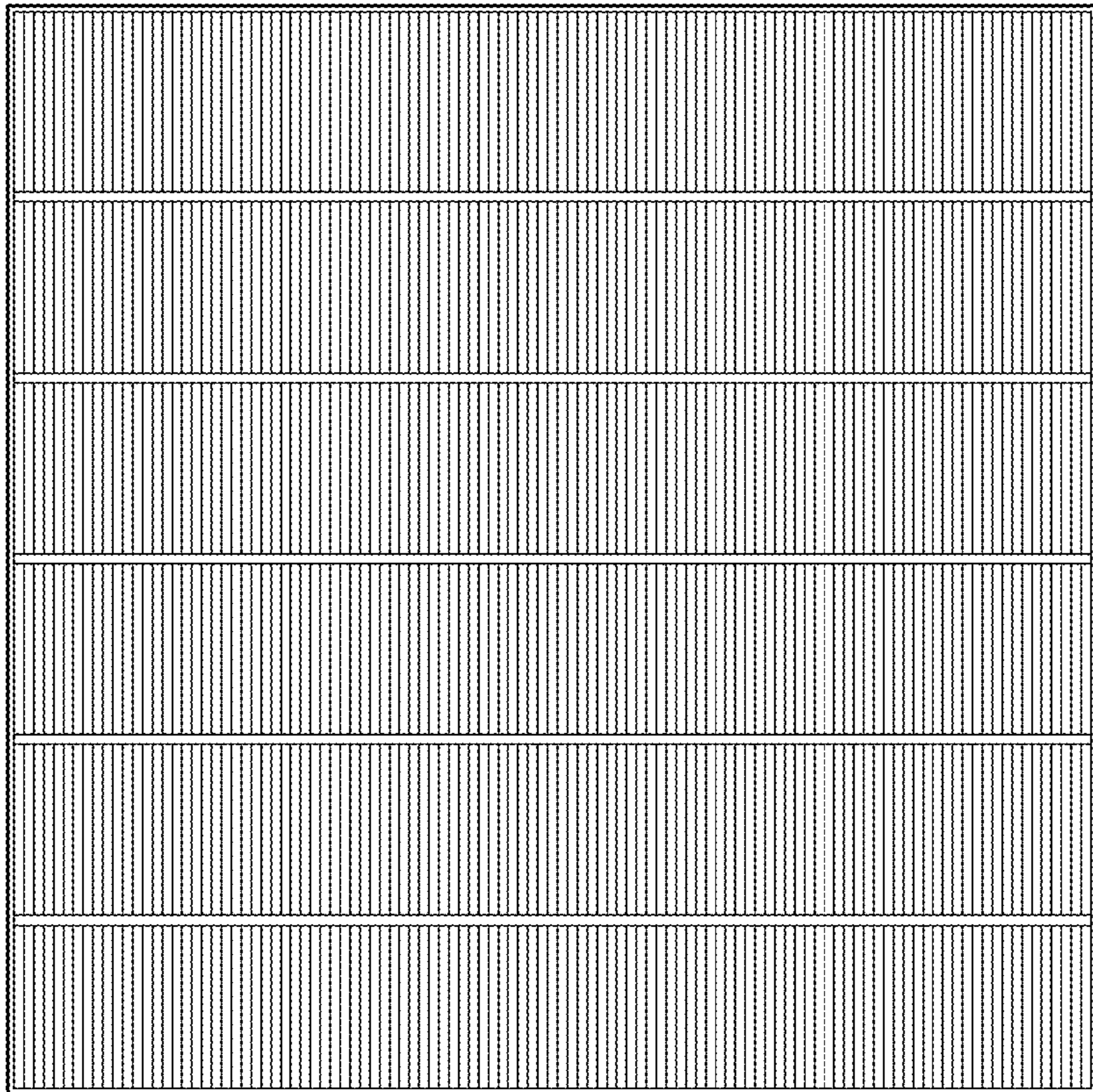


FIG. 24

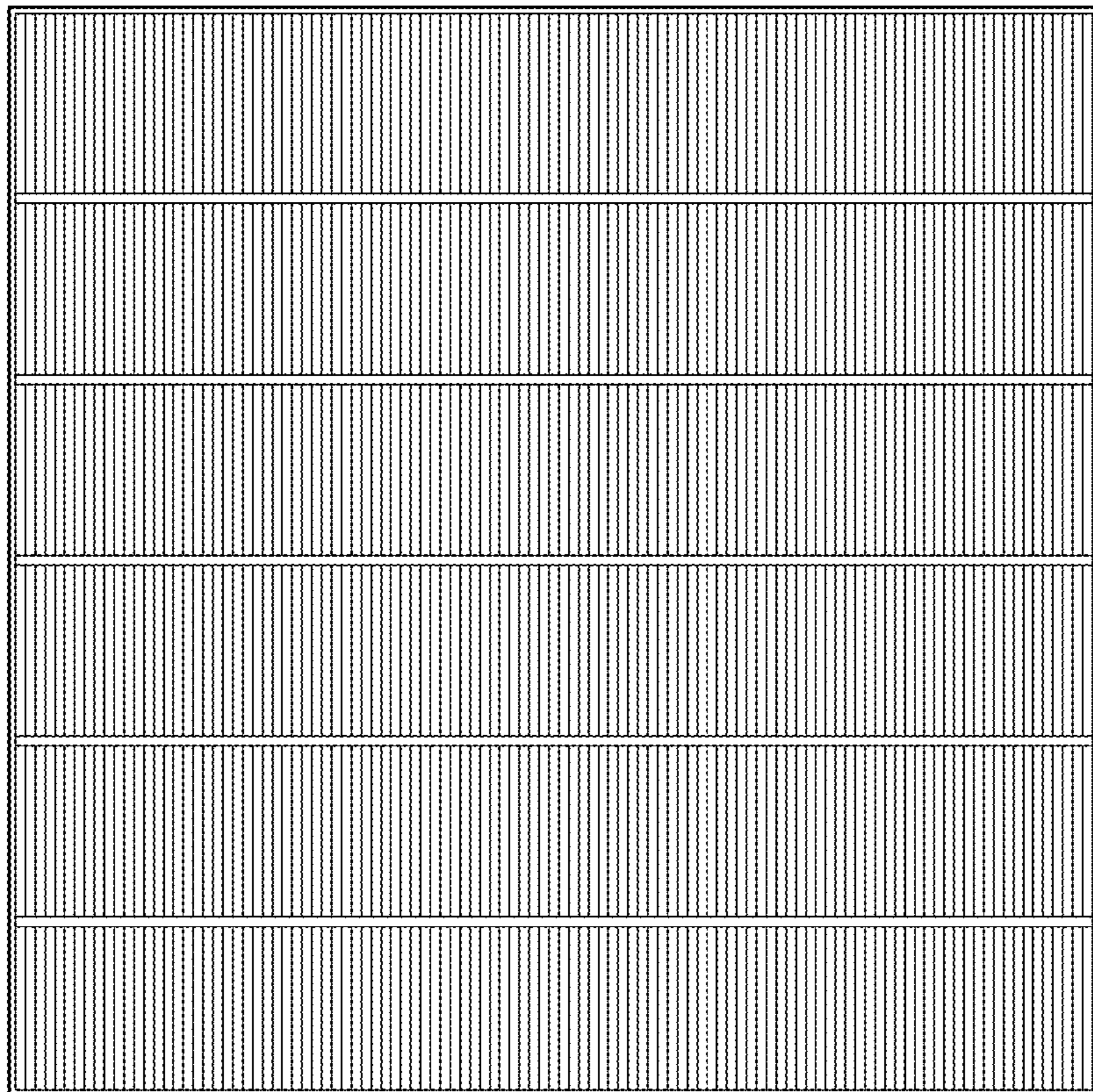


FIG. 23



FIG. 25



FIG. 26

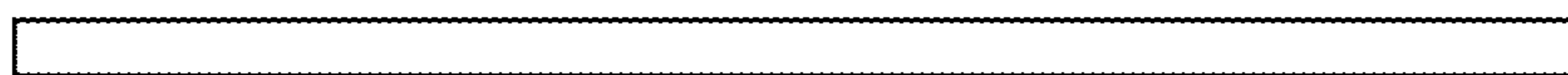


FIG. 27

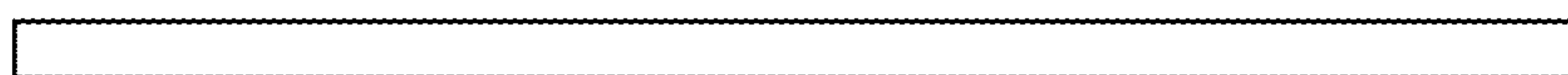


FIG. 28